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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/718,265	11/21/2003	David Hildebrand	50229-412	8133
MCDERMOTT, WILL & EMERY 600 13th Street, N.W.			EXAMINER	
			CHOWDHURY, IQBAL HOSSAIN	
Washington, DC 20005-3096			ART UNIT	PAPER NUMBER
5 ,			1652	

DATE MAILED: 06/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/718,265	HILDEBRAND ET AL.				
		Examiner	Art Unit				
		Iqbal Chowdhury	1652				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above; the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status		•					
1)	1) Responsive to communication(s) filed on						
2a) <u></u> □	This action is FINAL . 2b) This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-13 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
· <u> </u>	5) Claim(s) is/are allowed.						
	6) Claim(s) is/are rejected.						
•	7) Claim(s) is/are objected to.						
اـــا(٥	Claim(s) are subject to restriction and/or	election requirement.					
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
	e of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da					
3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date		atent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1 3 and 5 7, drawn to an isolated polynucleotide encoding hydroperoxide lyase or variants or fragments thereof, expression vector and host cell classified in class 435, subclass 252.3.
 - II. Claim 4, drawn to an isolated polypeptide of hydroperoxide lyase, classified in class 435, subclass 232.
 - III. Claim 8, drawn to transgenic plant, classified in class 800, subclass 295.
 - IV. Claims 9-13, drawn to method of using polypeptide hydroperoxide lyase for the production of green note compounds, classified in class 435, subclass 147.

For each inventions I - IV above, restriction required under 35 USC 121. The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions such as polynucleotide of Group I and the protein of Group II, each comprise a chemically unrelated structure capable of separate manufacture, use and effect. The DNA of Group I comprises a nucleic acid sequence whereas the protein of Group II comprises amino acid sequence. The DNA

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has other utility besides encoding the proteins such as for hybridization or probe or expression and the proteins can be made by another method such as isolation from natural sources or chemical synthesis.

- 3. Inventions I and IV are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions such as polynucleotides of Group I can be used in hybridization assays as well as in transforming bacteria or expression methods for polypeptide whereas Group III, which is a method of use of polypeptide hydroperoxide lyase, are different from polynucleotides of Group I. Since polynucleotide of Group I is neither made nor used by the method of Group III.
- 4. Inventions II and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the protein can be used for the materially different process of inducing an antibody.
- 5. Inventions I and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions, in this case, Group I comprises a nucleic acid sequence whereas Group III comprises a transgenic plant, which is a completely

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different entity. The DNA has other utility such as for hybridization or probe preparation or transformation of bacteria. The transgenic plant and the polynucleotide of hydroperoxide lyase each have different class and subclass require separate searches of the prior art.

6. Inventions II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions; in this case, Group II comprises a polypeptide hydroperoxide lyase whereas Group III comprises a transgenic plant, which is a different entity. The transgenic plant and the polypeptide hydroperoxide lyase each have different class and subclass require separate searches of the prior art.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, and literature and sequence searches required for each of the groups are not required for another of the Groups, restriction for examination purposes as indicated is proper.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iqbal Chowdhury whose telephone number is 571-272-8137. The examiner can normally be reached on 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapu Achutamurthy can be reached on 703-272-0928. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Iqbal Chowdhury, Patent Examiner, Art <u>Unit 1652</u> IC

REBLÜLM: PRIMARY EYAMIBLA